

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011623\
 Data File : VN076269.D
 Acq On : 16 Jan 2023 15:15
 Operator : JC\MD
 Sample : VN0116WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

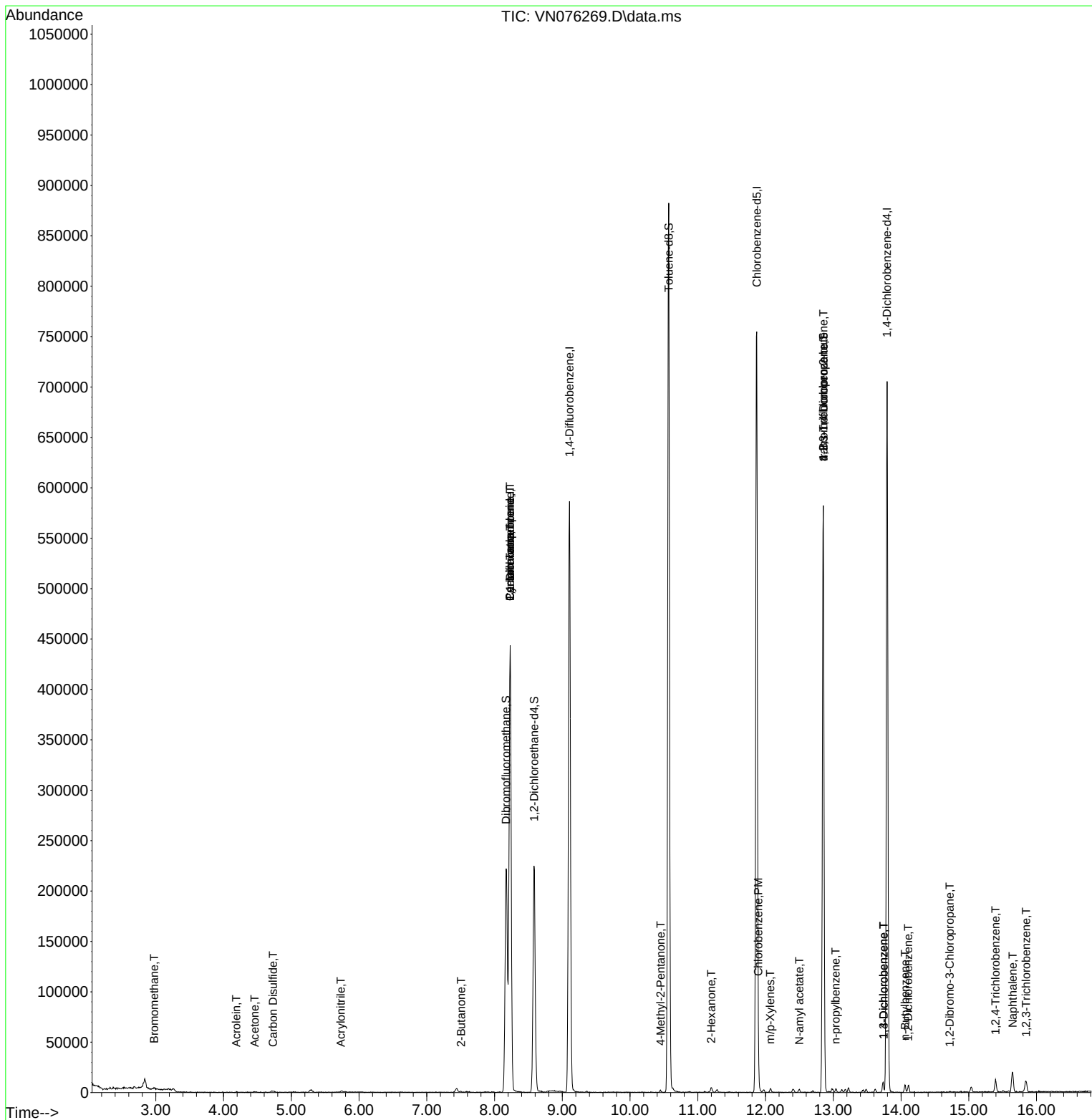
Instrument :
 MSVOA_N
 ClientSampleId :

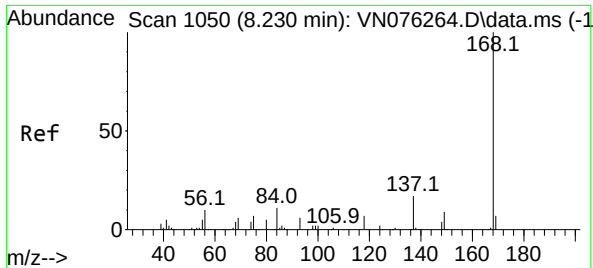
Quant Time: Jan 17 04:01:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	345247	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	543245	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	471728	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	195481	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	180117	46.594	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.180%
35) Dibromofluoromethane	8.171	113	162786	47.903	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.800%
50) Toluene-d8	10.570	98	622490	49.601	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.200%
62) 4-Bromofluorobenzene	12.853	95	190663	46.537	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.080%
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	1123	0.305	ug/l #	80
13) Acrolein	4.189	56	203	0.328	ug/l #	58
15) Acrylonitrile	5.730	53	575	0.391	ug/l #	66
16) Acetone	4.459	43	1099	0.814	ug/l #	41
17) Carbon Disulfide	4.730	76	2822	0.343	ug/l #	73
20) Methylene Chloride	5.288	84	2154	Below Cal	#	80
25) 2-Butanone	7.506	43	815	0.431	ug/l #	40
31) Cyclohexane	8.229	56	6633	1.117	ug/l #	16
36) 1,1-Dichloropropene	8.229	75	23545	4.876	ug/l #	49
38) Carbon Tetrachloride	8.229	117	34028	6.319	ug/l #	16
51) 4-Methyl-2-Pentanone	10.453	43	1569	0.424	ug/l #	56
59) 2-Hexanone	11.200	43	3499	1.305	ug/l	91
65) Chlorobenzene	11.894	112	2005	0.201	ug/l #	81
68) m/p-Xylenes	12.070	106	1414	0.207	ug/l	92
74) N-amyl acetate	12.500	43	1635	0.376	ug/l	91
76) 1,2,3-Trichloropropane	12.853	75	98416	27.204	ug/l #	1
77) Bromobenzene	12.976	156	845	Below Cal		64
78) n-propylbenzene	13.035	91	3600	0.211	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.853	75	98416	83.766	ug/l #	11
87) 1,3-Dichlorobenzene	13.741	146	3493	0.490	ug/l	97
88) 1,4-Dichlorobenzene	13.741	146	3493	0.615	ug/l	96
89) n-Butylbenzene	14.059	91	4974	0.487	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	3271	0.461	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.717	75	199	0.263	ug/l #	49
93) 1,2,4-Trichlorobenzene	15.394	180	4932	2.705	ug/l	96
95) Naphthalene	15.647	128	20789	3.810	ug/l	97
96) 1,2,3-Trichlorobenzene	15.847	180	5414	2.771	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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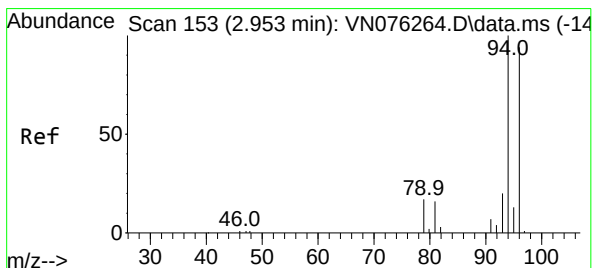
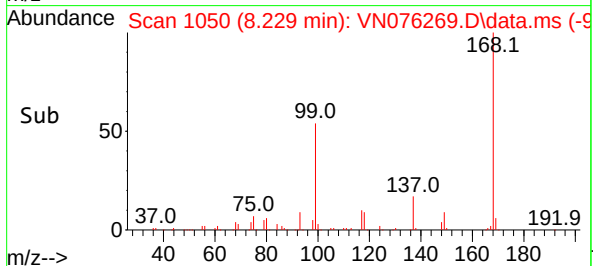
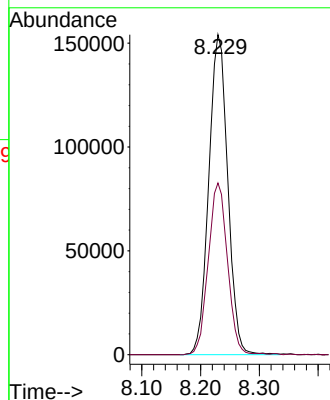
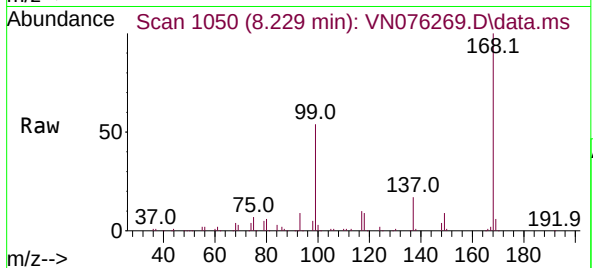




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

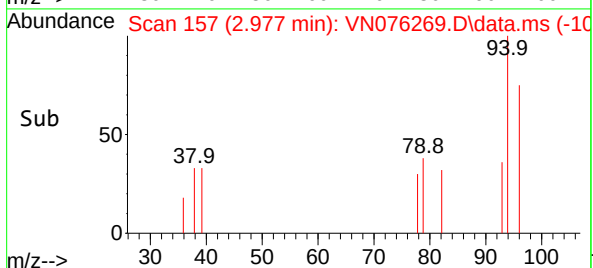
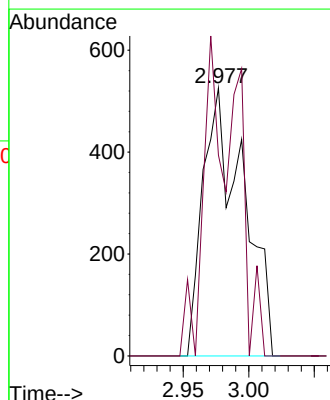
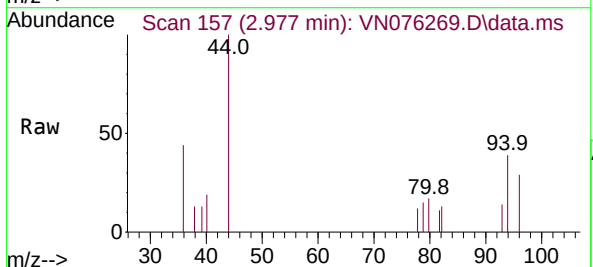
Instrument :
MSVOA_N
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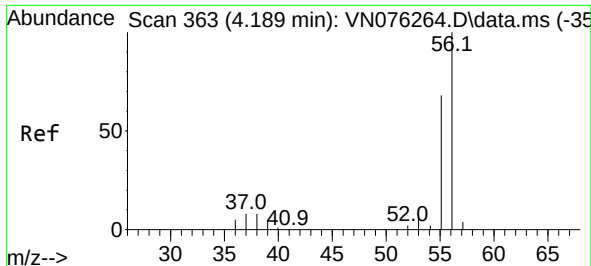
Tgt Ion:168 Resp: 345247
Ion Ratio Lower Upper
168 100
99 53.7 41.6 62.4



#5
Bromomethane
Concen: 0.305 ug/l
RT: 2.977 min Scan# 157
Delta R.T. 0.024 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Tgt Ion: 94 Resp: 1123
Ion Ratio Lower Upper
94 100
96 74.9 75.1 112.7#





#13

Acrolein

Concen: 0.328 ug/l

RT: 4.189 min Scan# 363

Delta R.T. -0.000 min

Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

Instrument :

MSVOA_N

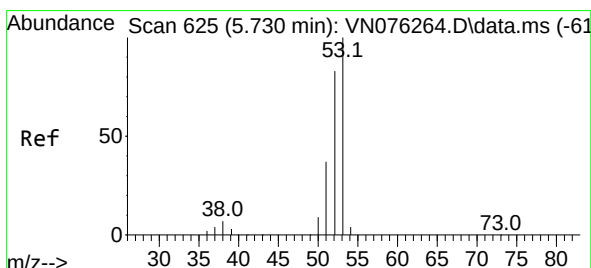
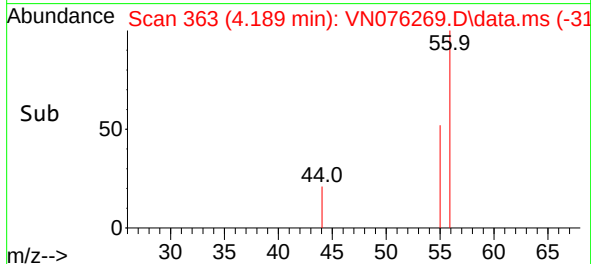
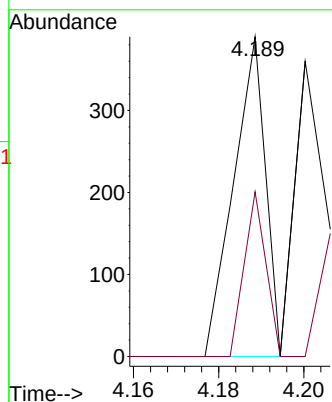
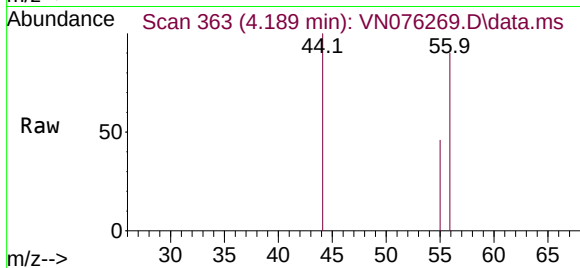
ClientSampleId :

Tgt Ion: 56 Resp: 203

Ion Ratio Lower Upper

56 100

55 35.0 55.8 83.6#



#15

Acrylonitrile

Concen: 0.391 ug/l

RT: 5.730 min Scan# 625

Delta R.T. -0.000 min

Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

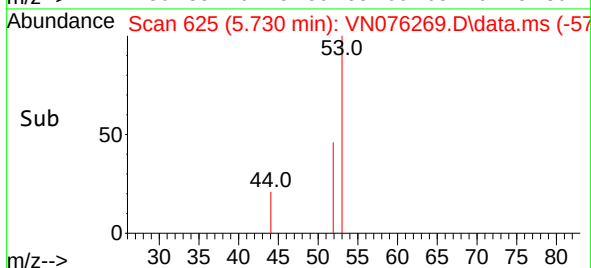
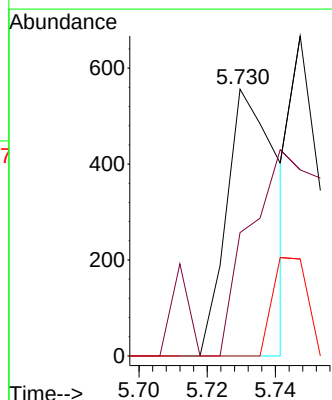
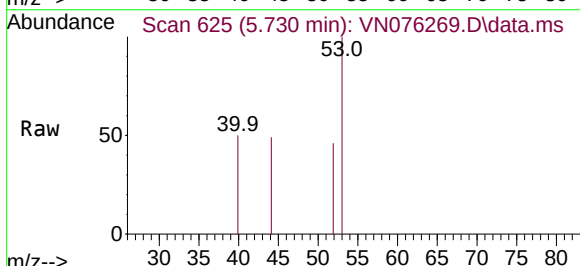
Tgt Ion: 53 Resp: 575

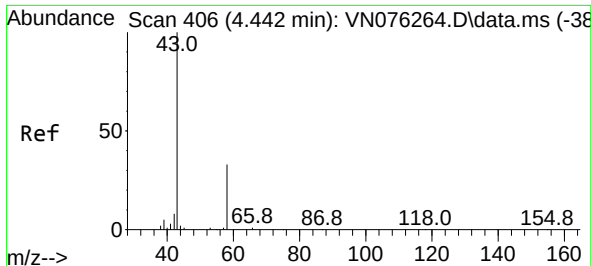
Ion Ratio Lower Upper

53 100

52 116.5 64.7 97.1#

51 25.0 29.2 43.8#

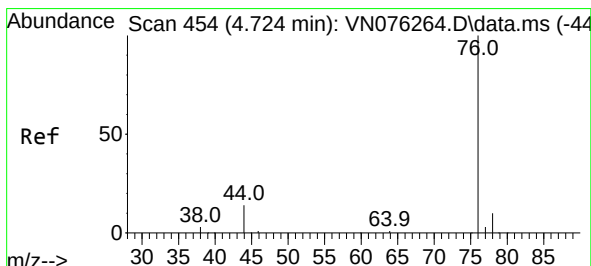
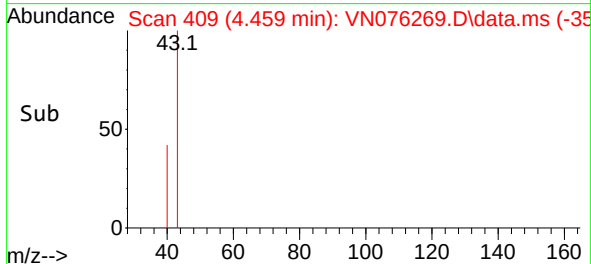
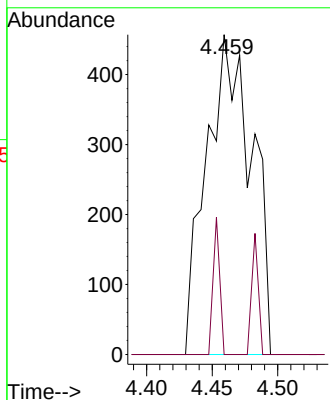
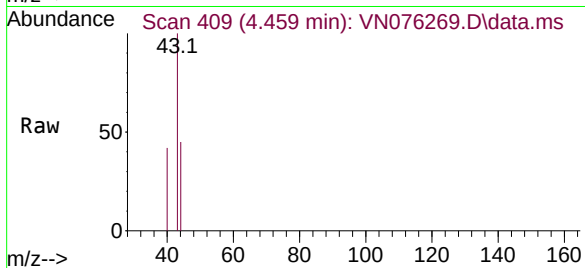




#16
Acetone
Concen: 0.814 ug/l
RT: 4.459 min Scan# 406
Delta R.T. 0.017 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

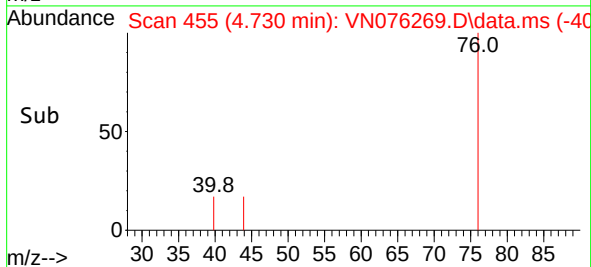
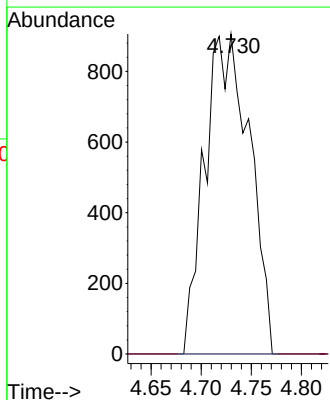
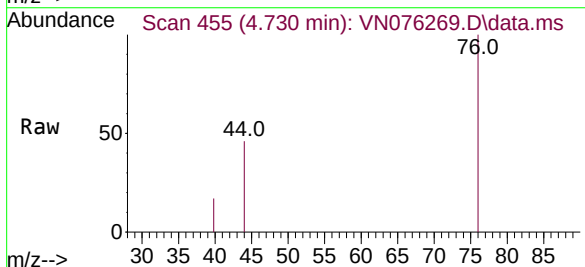
Instrument :
MSVOA_N
ClientSampleId :

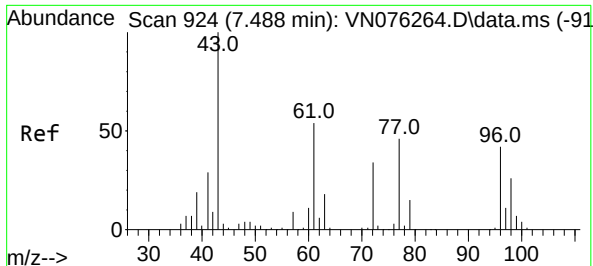
Tgt Ion: 43 Resp: 1099
Ion Ratio Lower Upper
43 100
58 0.0 26.7 40.1#



#17
Carbon Disulfide
Concen: 0.343 ug/l
RT: 4.730 min Scan# 455
Delta R.T. 0.006 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Tgt Ion: 76 Resp: 2822
Ion Ratio Lower Upper
76 100
78 0.0 8.0 12.0#

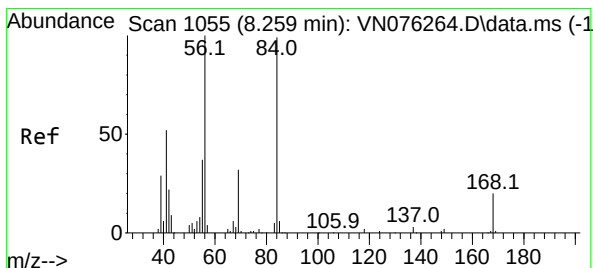
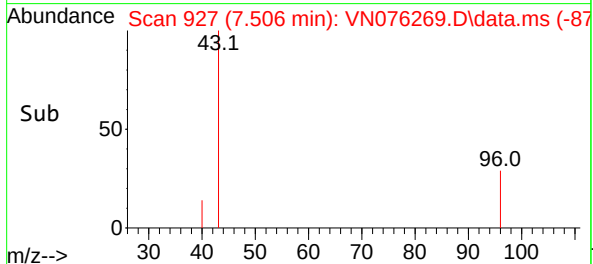
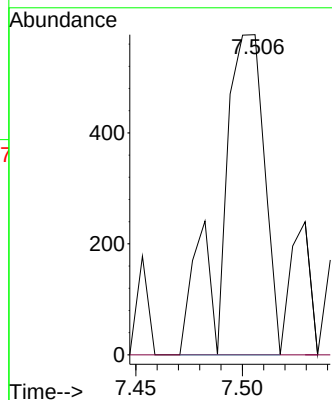
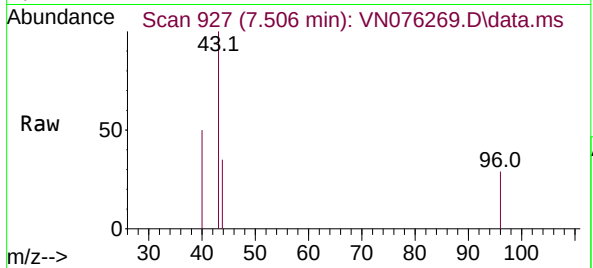




#25
2-Butanone
Concen: 0.431 ug/l
RT: 7.506 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

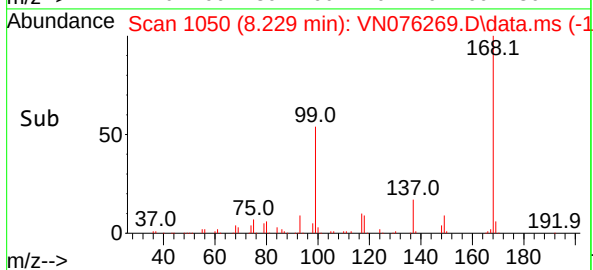
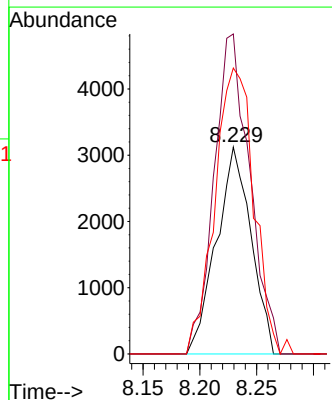
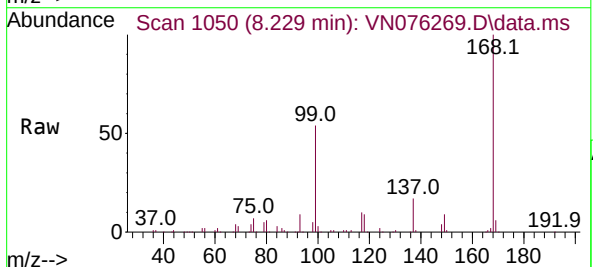
Instrument :
MSVOA_N
ClientSampleId :

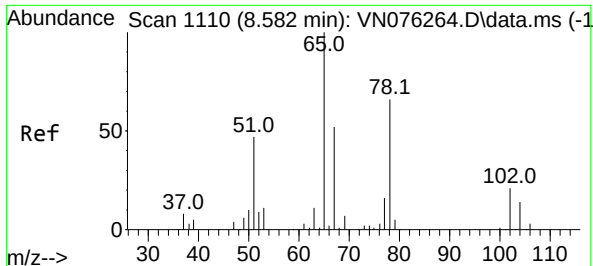
Tgt Ion: 43 Resp: 815
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.2#



#31
Cyclohexane
Concen: 1.117 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.030 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Tgt Ion: 56 Resp: 6633
Ion Ratio Lower Upper
56 100
69 154.7 25.8 38.8#
84 138.2 79.0 118.4#





#33

1,2-Dichloroethane-d4

Concen: 46.594 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

Instrument :

MSVOA_N

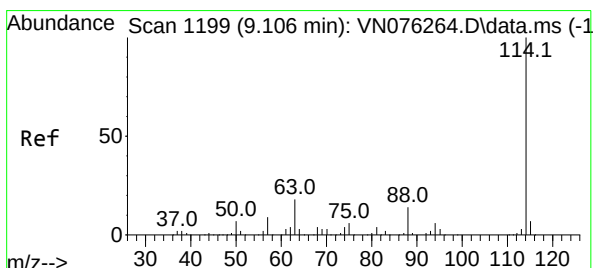
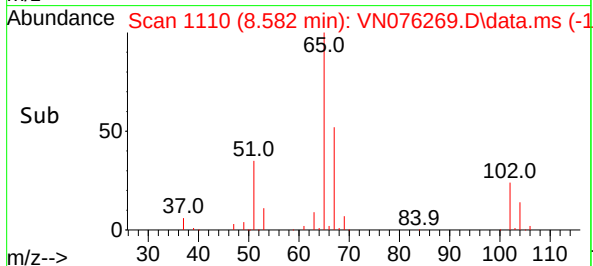
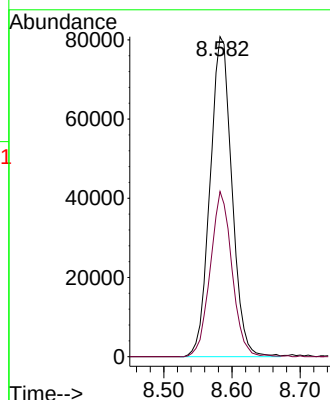
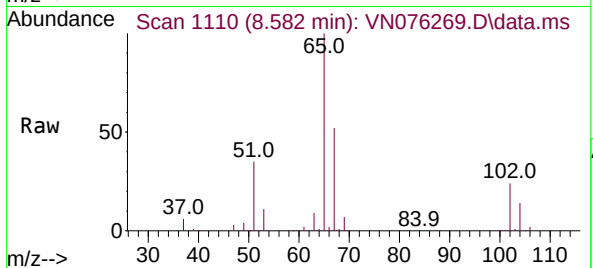
ClientSampleId :

Tgt Ion: 65 Resp: 180117

Ion Ratio Lower Upper

65 100

67 51.3 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

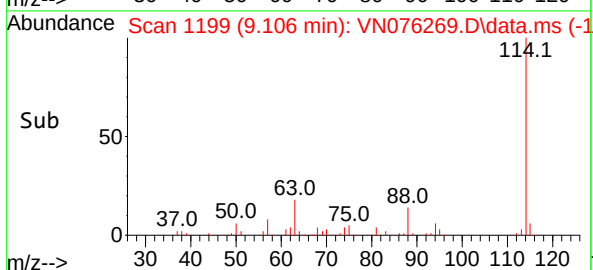
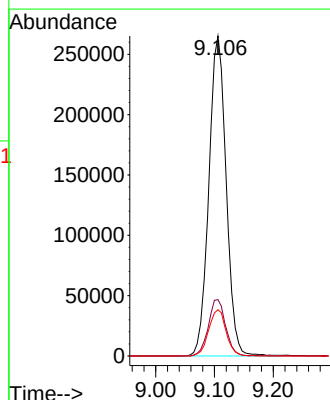
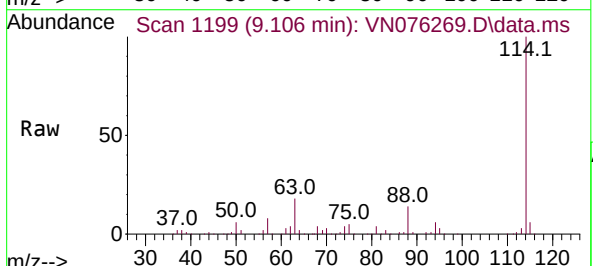
Tgt Ion: 114 Resp: 543245

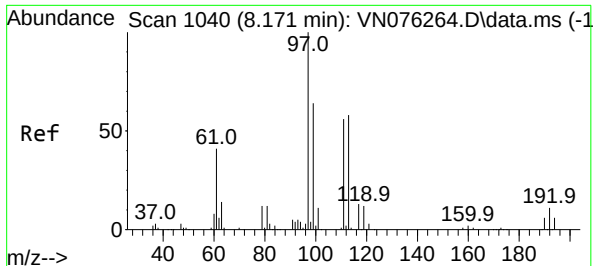
Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.8

88 14.5 0.0 28.0





#35

Dibromofluoromethane

Concen: 47.903 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

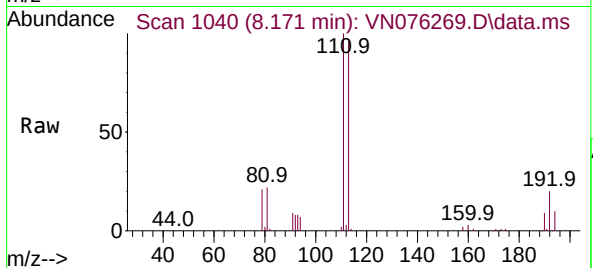
Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

Instrument :

MSVOA_N

ClientSampleId :



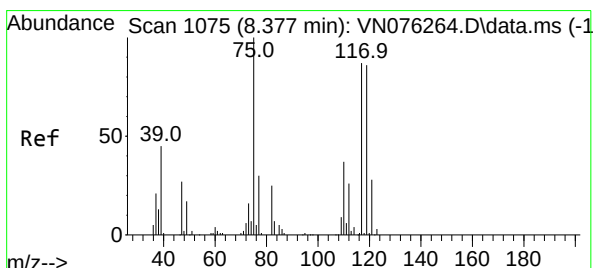
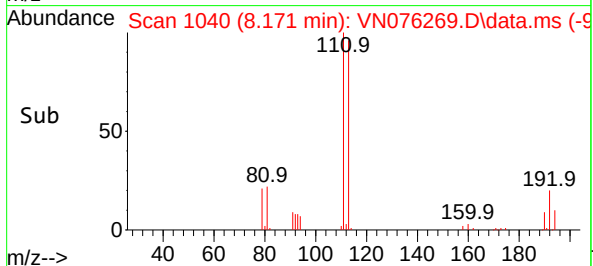
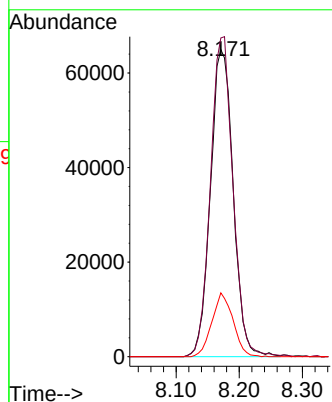
Tgt Ion:113 Resp: 162786

Ion Ratio Lower Upper

113 100

111 102.9 82.7 124.1

192 19.3 15.6 23.4



#36

1,1-Dichloropropene

Concen: 4.876 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.148 min

Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

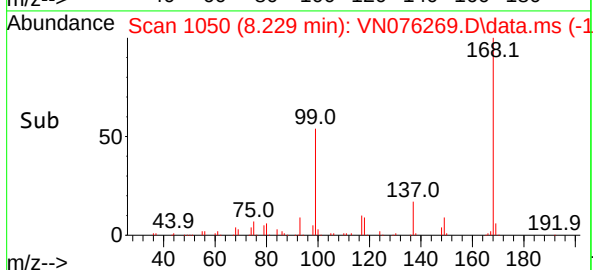
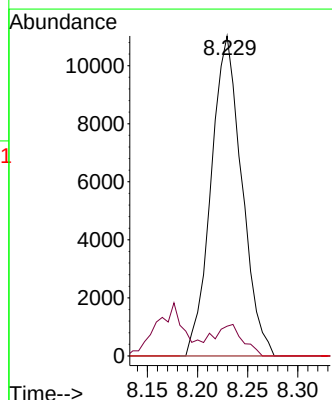
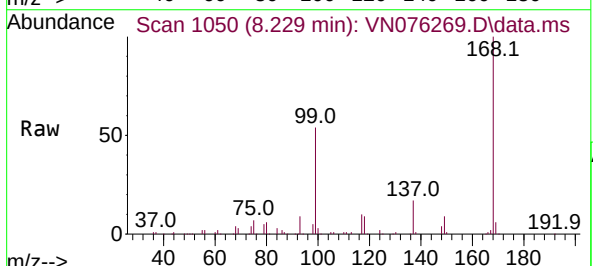
Tgt Ion: 75 Resp: 23545

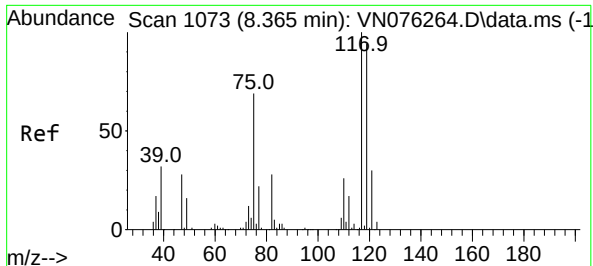
Ion Ratio Lower Upper

75 100

110 9.2 18.8 56.3#

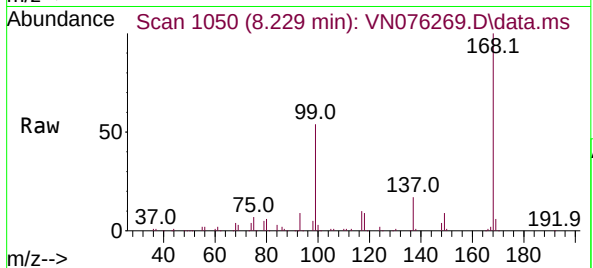
77 0.0 25.0 37.4#



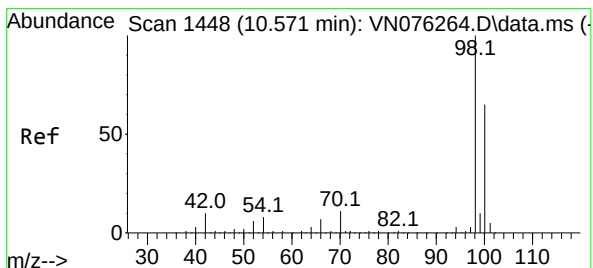
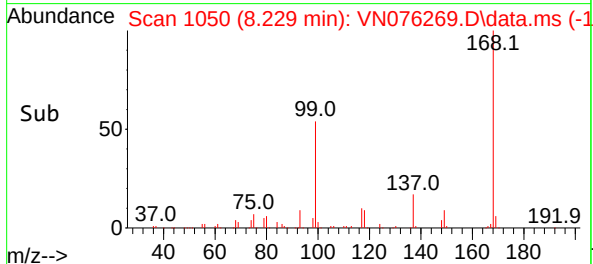
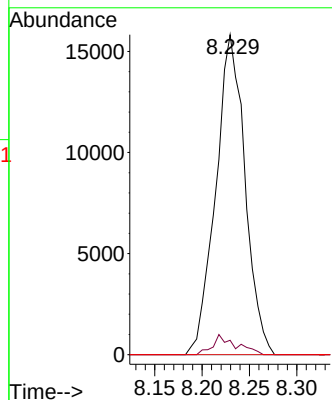


#38
Carbon Tetrachloride
Concen: 6.319 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.136 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Instrument :
MSVOA_N
ClientSampleId :

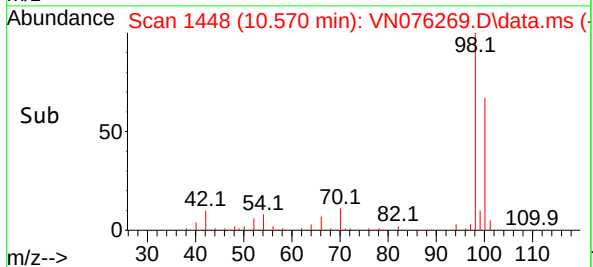
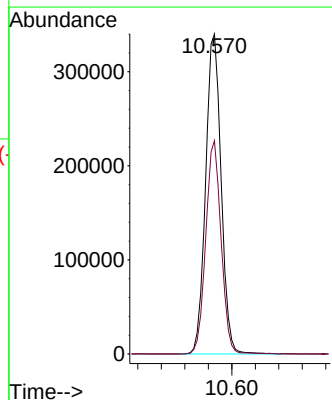
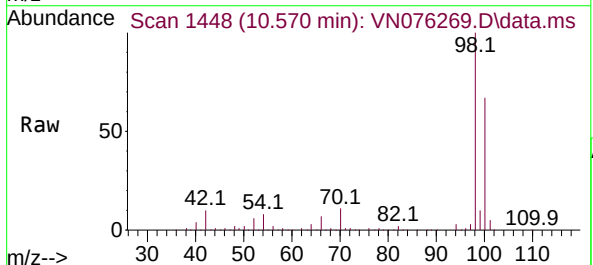


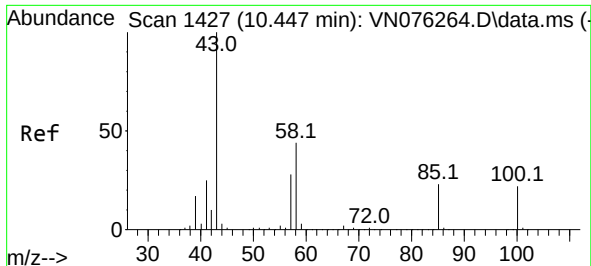
Tgt Ion:117 Resp: 34028
Ion Ratio Lower Upper
117 100
119 4.5 75.4 113.0#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 49.601 ug/l
RT: 10.570 min Scan# 1448
Delta R.T. -0.001 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Tgt Ion: 98 Resp: 622490
Ion Ratio Lower Upper
98 100
100 65.9 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 0.424 ug/l

RT: 10.453 min Scan# 1428

Delta R.T. 0.006 min

Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

Instrument :

MSVOA_N

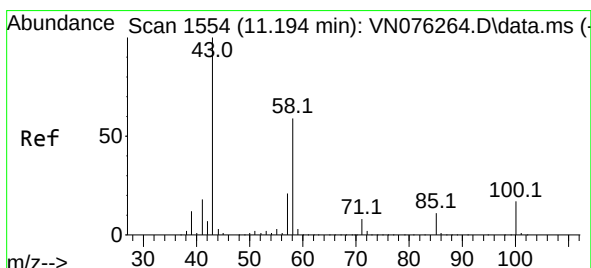
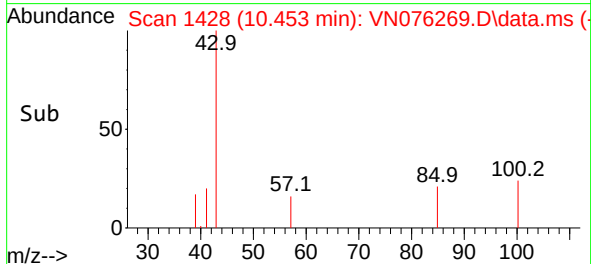
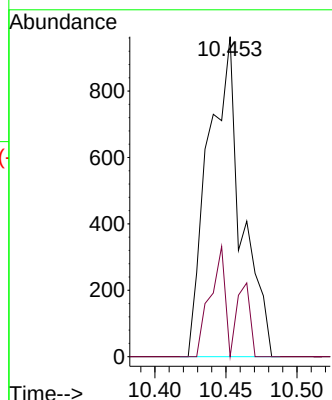
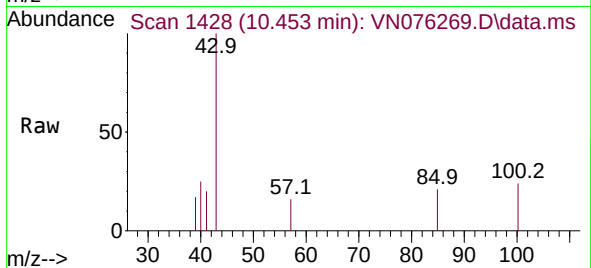
ClientSampleId :

Tgt Ion: 43 Resp: 1569

Ion Ratio Lower Upper

43 100

58 15.4 35.1 52.7#



#59

2-Hexanone

Concen: 1.305 ug/l

RT: 11.200 min Scan# 1555

Delta R.T. 0.006 min

Lab File: VN076269.D

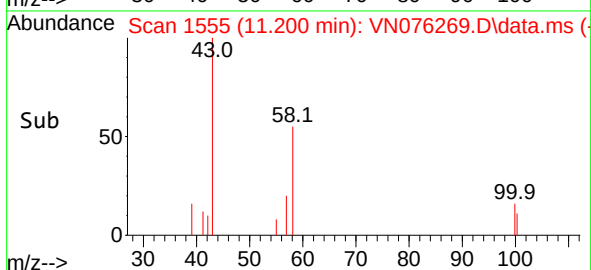
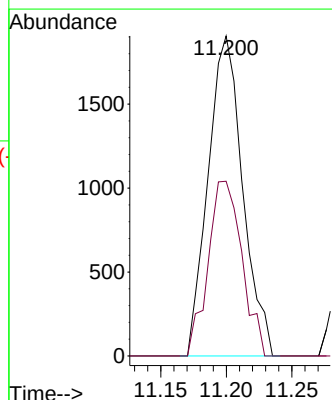
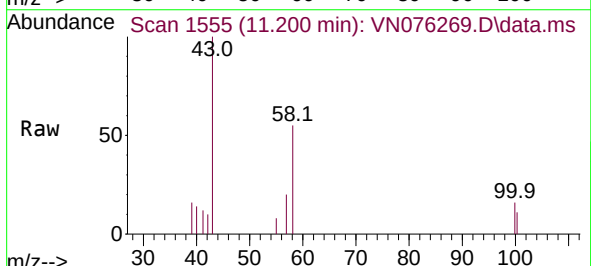
Acq: 16 Jan 2023 15:15

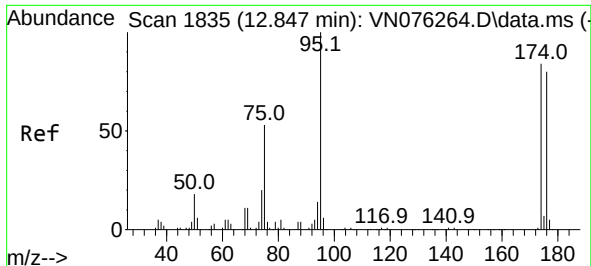
Tgt Ion: 43 Resp: 3499

Ion Ratio Lower Upper

43 100

58 53.4 30.1 90.3

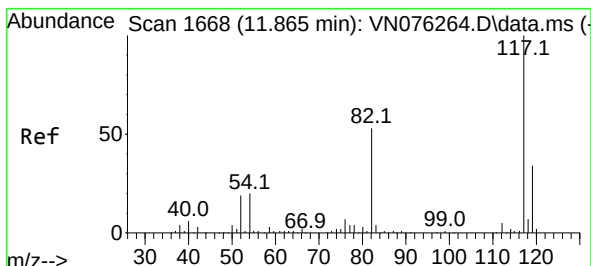
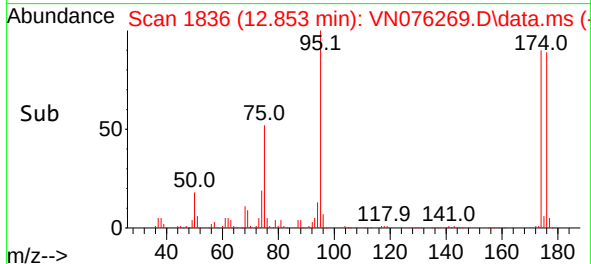
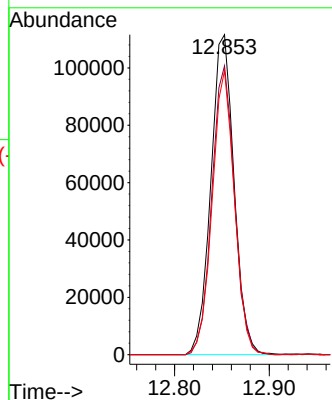
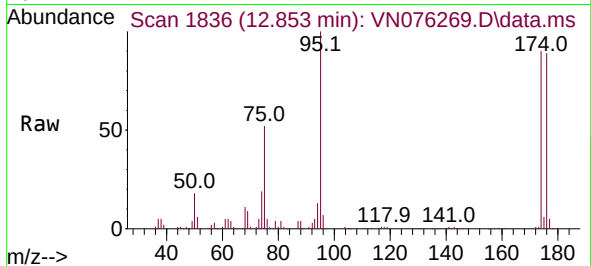




#62
4-Bromofluorobenzene
Concen: 46.537 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

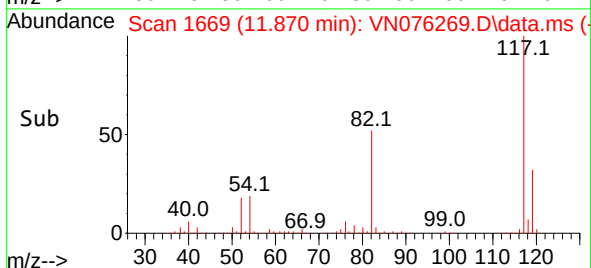
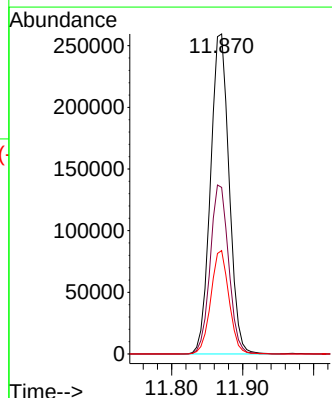
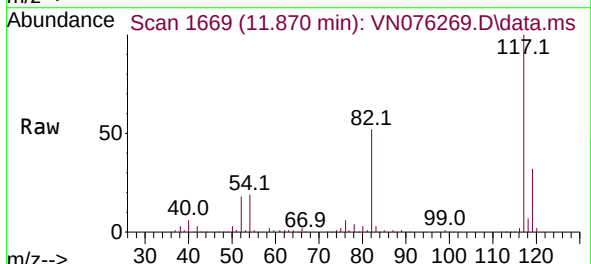
Instrument :
MSVOA_N
ClientSampleId :

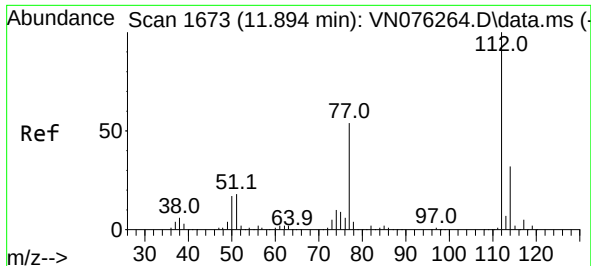
Tgt Ion: 95 Resp: 190663
Ion Ratio Lower Upper
95 100
174 88.1 0.0 174.6
176 84.9 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1669
Delta R.T. 0.005 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Tgt Ion: 117 Resp: 471728
Ion Ratio Lower Upper
117 100
82 52.0 42.2 63.2
119 32.3 26.9 40.3

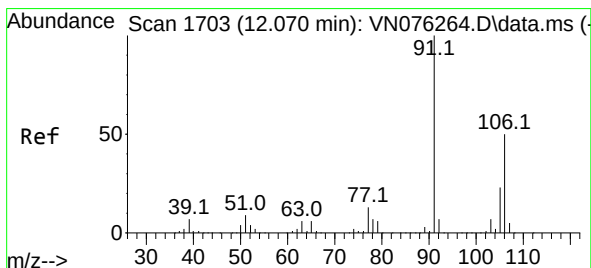
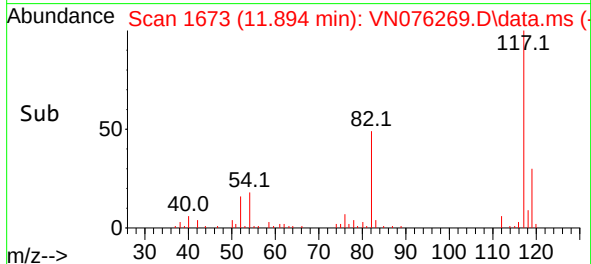
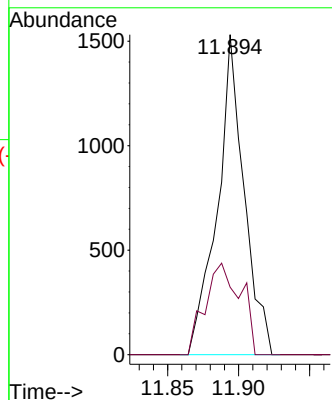
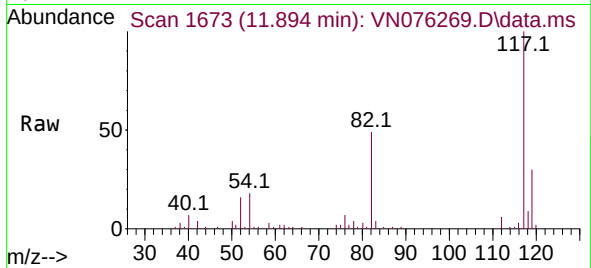




#65
Chlorobenzene
Concen: 0.201 ug/l
RT: 11.894 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

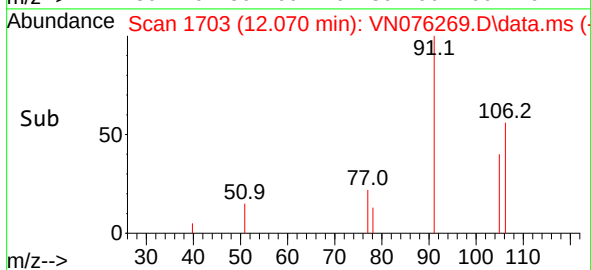
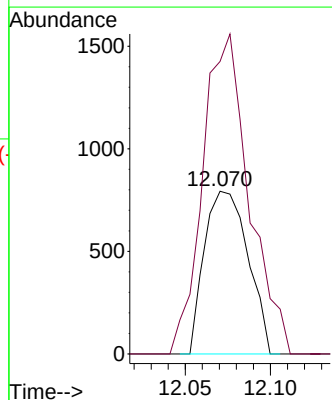
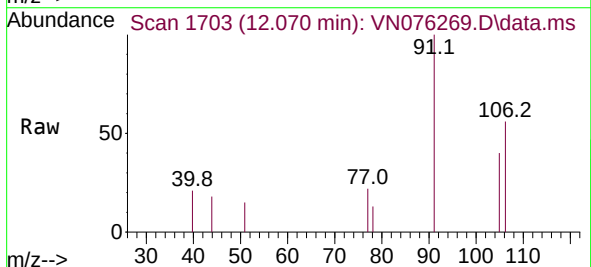
Instrument :
MSVOA_N
ClientSampleId :

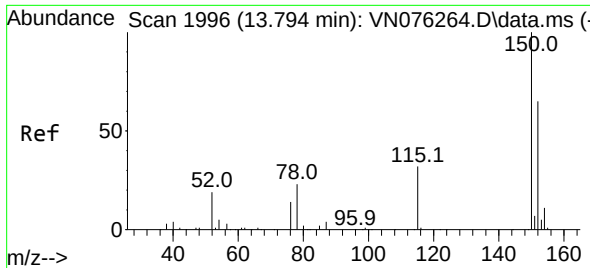
Tgt Ion:112 Resp: 2005
Ion Ratio Lower Upper
112 100
114 21.1 25.3 37.9#



#68
m/p-Xylenes
Concen: 0.207 ug/l
RT: 12.070 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Tgt Ion:106 Resp: 1414
Ion Ratio Lower Upper
106 100
91 208.4 157.5 236.3

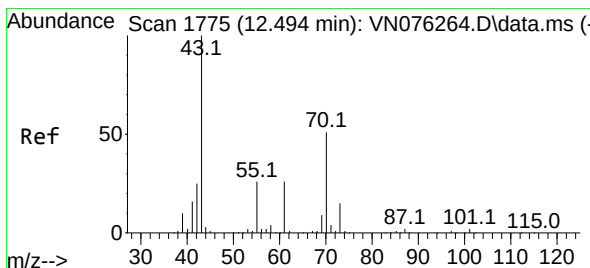
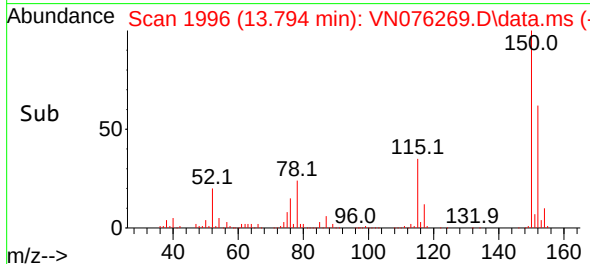
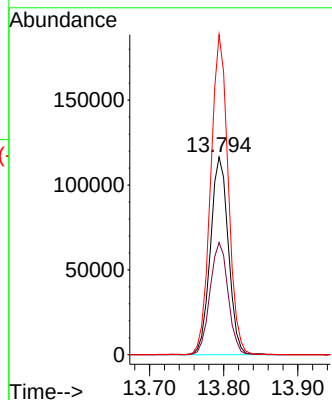
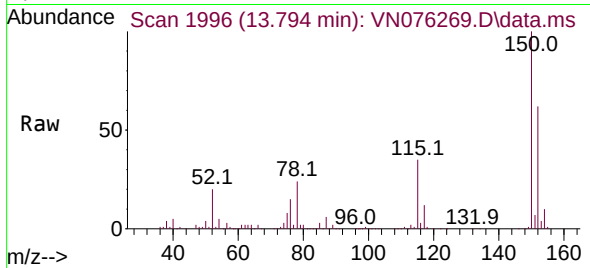




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. -0.000 min
 Lab File: VN076269.D
 Acq: 16 Jan 2023 15:15

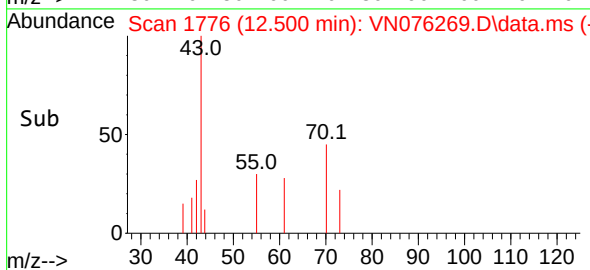
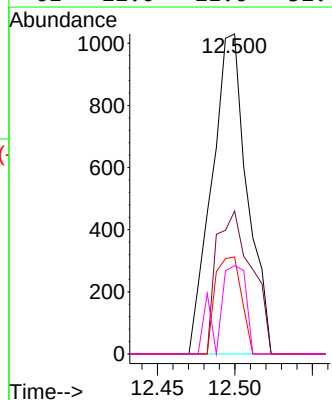
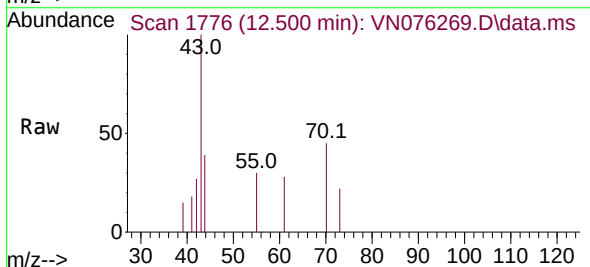
Instrument :
 MSVOA_N
 ClientSampleId :

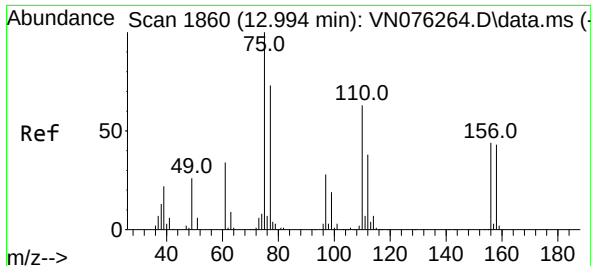
Tgt Ion:152 Resp: 195481
 Ion Ratio Lower Upper
 152 100
 115 57.4 29.6 88.9
 150 158.3 0.0 351.4



#74
 N-ethyl acetate
 Concen: 0.376 ug/l
 RT: 12.500 min Scan# 1776
 Delta R.T. 0.006 min
 Lab File: VN076269.D
 Acq: 16 Jan 2023 15:15

Tgt Ion: 43 Resp: 1635
 Ion Ratio Lower Upper
 43 100
 70 44.3 41.2 61.8
 55 22.3 21.0 31.6
 61 22.0 21.6 32.4

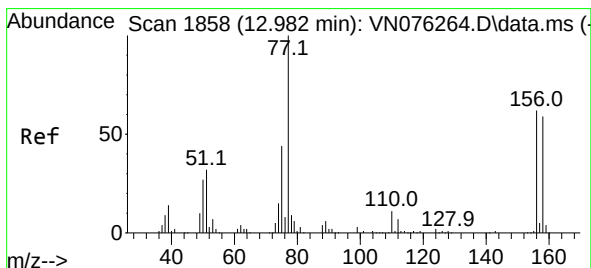
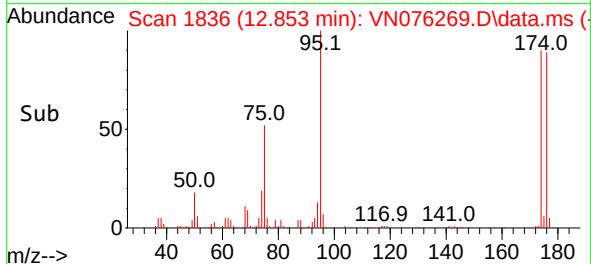
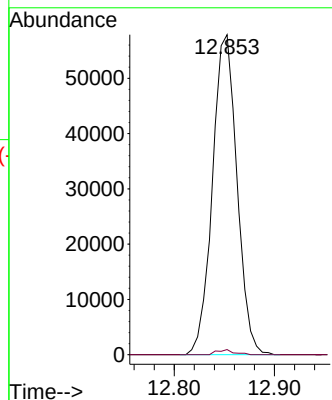
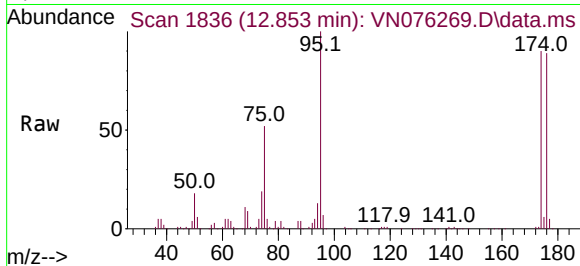




#76
1,2,3-Trichloropropane
Concen: 27.204 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

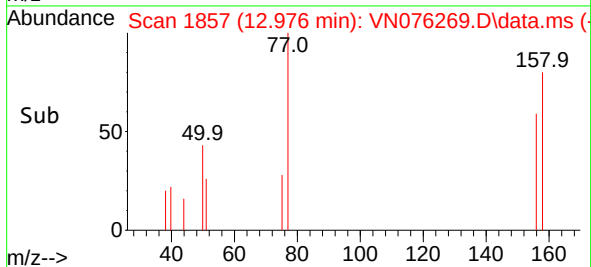
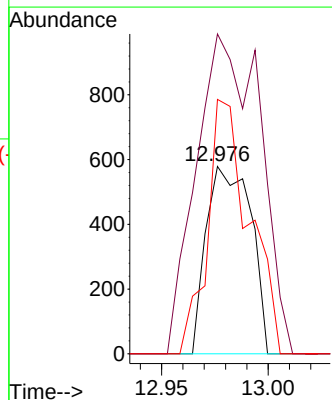
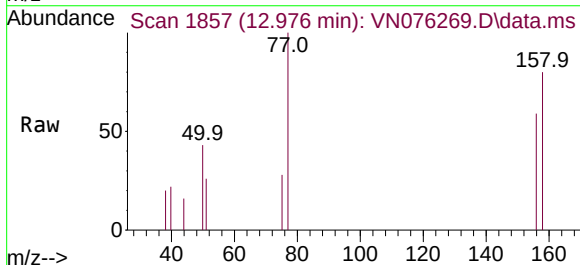
Instrument :
MSVOA_N
ClientSampleId :

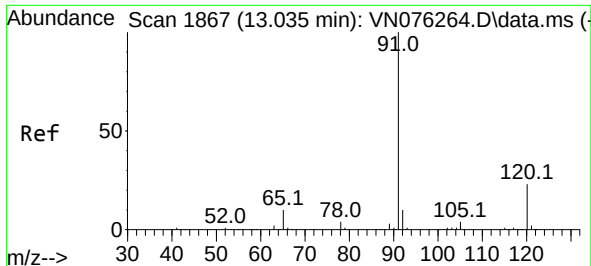
Tgt Ion: 75 Resp: 98416
Ion Ratio Lower Upper
75 100
77 1.1 75.2 225.6#



#77
Bromobenzene
Concen: Below Cal
RT: 12.976 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Tgt Ion:156 Resp: 845
Ion Ratio Lower Upper
156 100
77 243.9 93.4 280.2
158 126.5 48.4 145.2

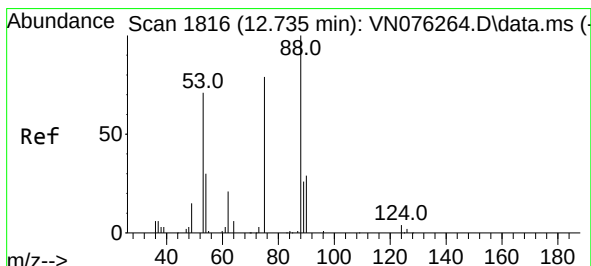
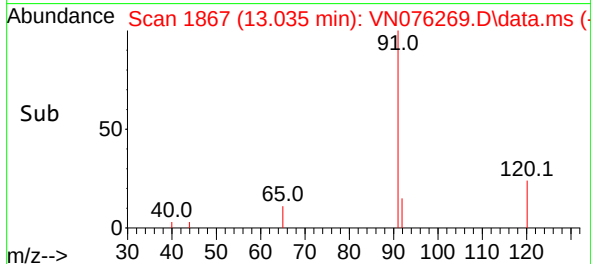
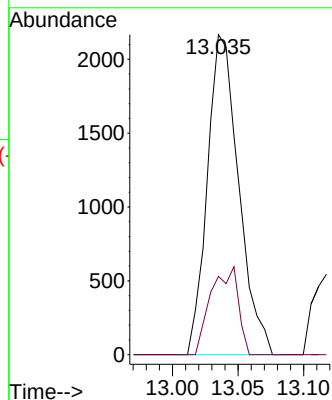
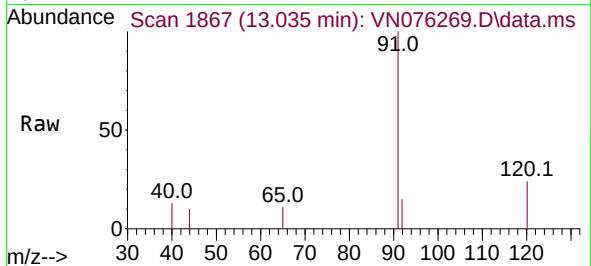




#78
n-propylbenzene
Concen: 0.211 ug/l
RT: 13.035 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

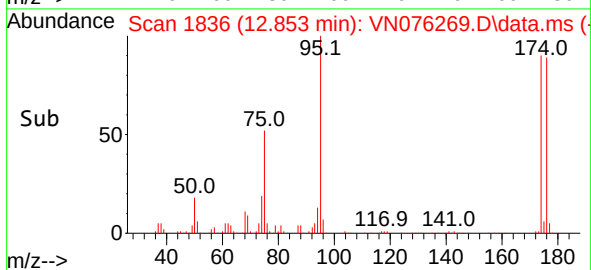
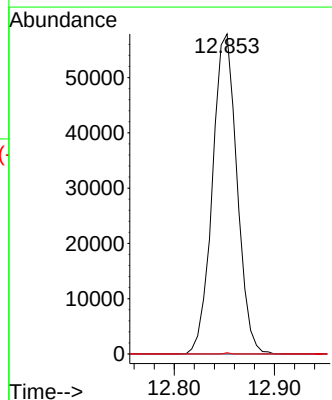
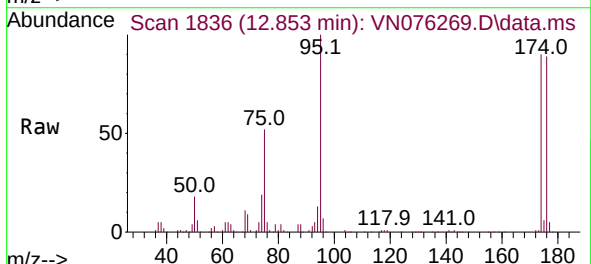
Instrument :
MSVOA_N
ClientSampleId :

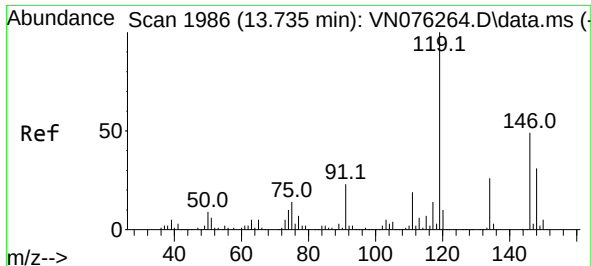
Tgt Ion: 91 Resp: 3600
Ion Ratio Lower Upper
91 100
120 23.9 11.9 35.5



#81
trans-1,4-Dichloro-2-butene
Concen: 83.766 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Tgt Ion: 75 Resp: 98416
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.1 37.0 55.6#





#87

1,3-Dichlorobenzene

Concen: 0.490 ug/l

RT: 13.741 min Scan# 1987

Delta R.T. 0.006 min

Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

Instrument :

MSVOA_N

ClientSampleId :

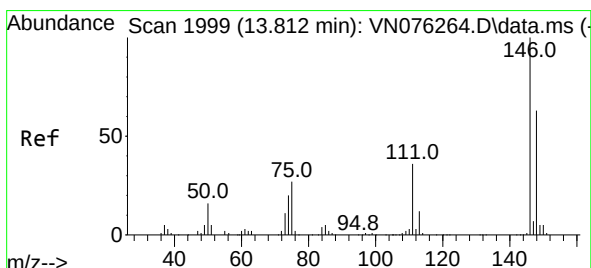
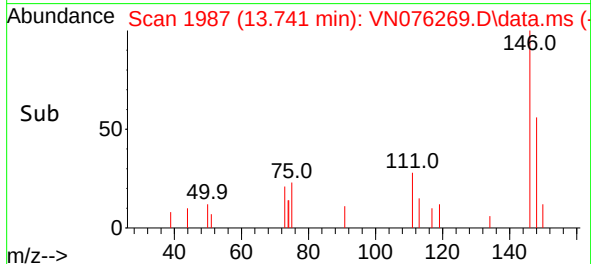
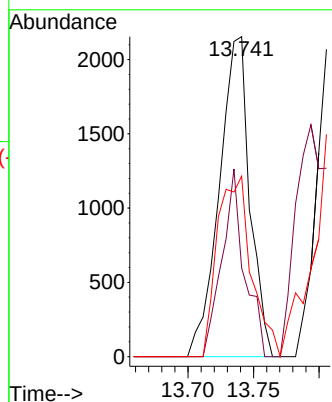
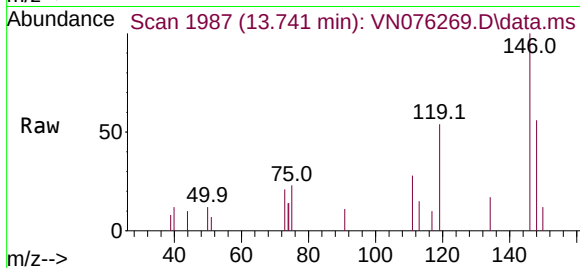
Tgt Ion:146 Resp: 3493

Ion Ratio Lower Upper

146 100

111 43.1 19.9 59.7

148 62.4 31.6 94.8



#88

1,4-Dichlorobenzene

Concen: 0.615 ug/l

RT: 13.741 min Scan# 1987

Delta R.T. -0.071 min

Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

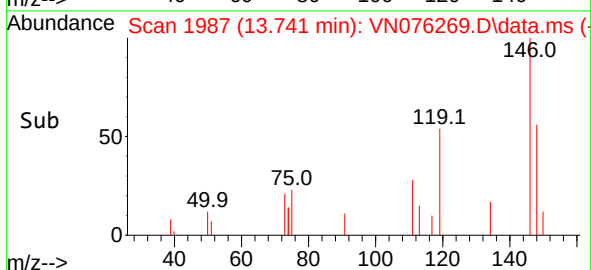
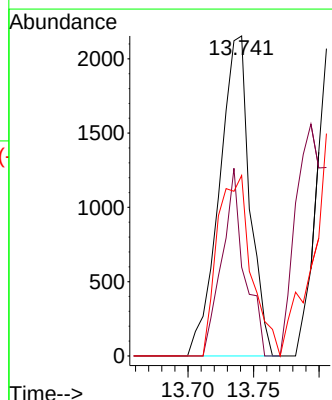
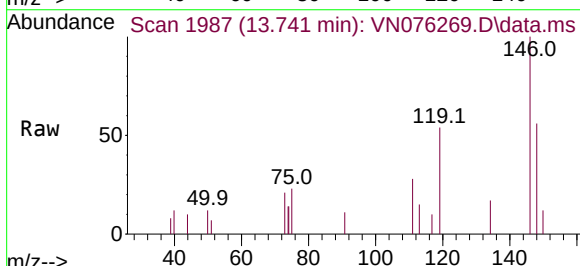
Tgt Ion:146 Resp: 3493

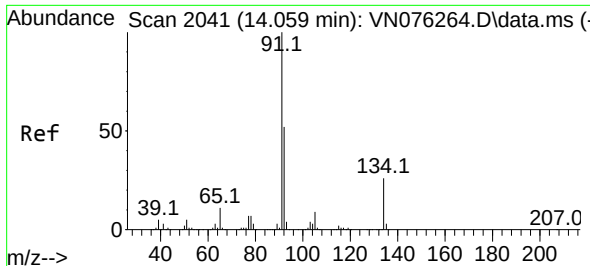
Ion Ratio Lower Upper

146 100

111 43.1 19.1 57.5

148 62.4 31.9 95.9

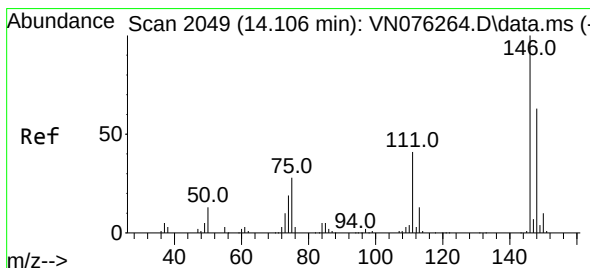
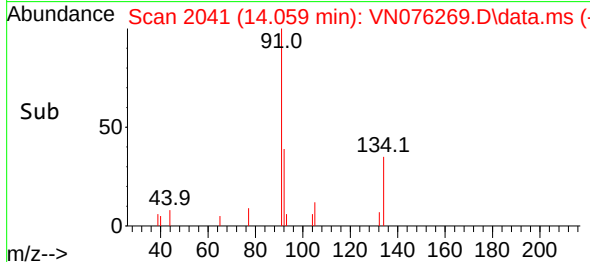
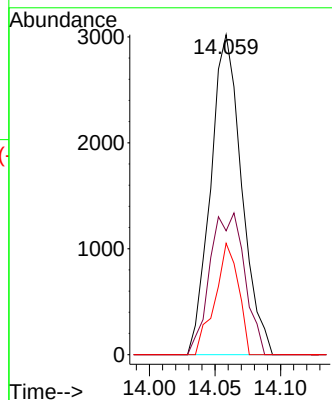
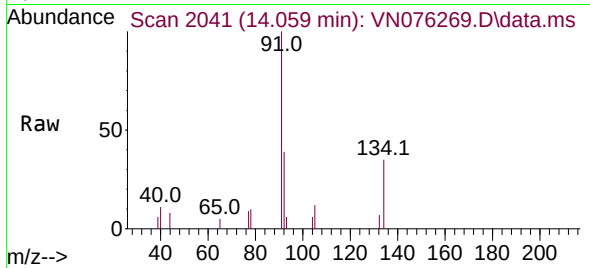




#89
n-Butylbenzene
Concen: 0.487 ug/l
RT: 14.059 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

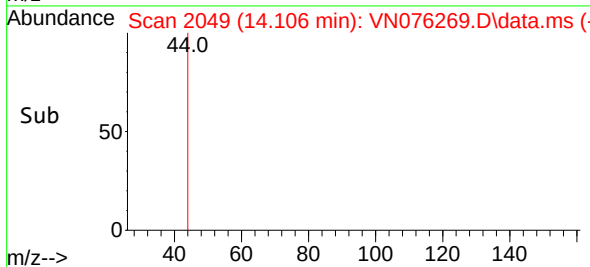
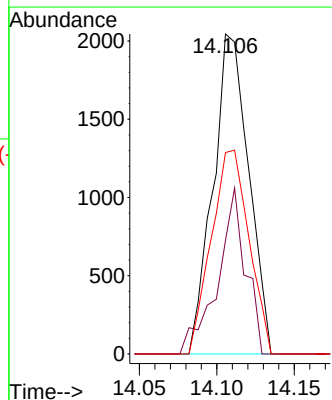
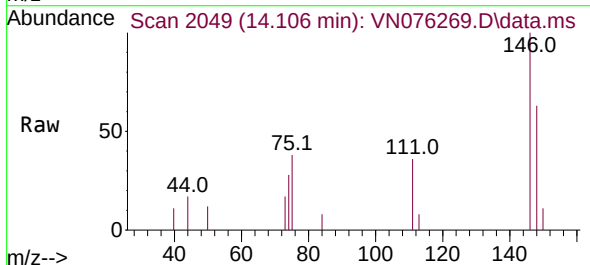
Instrument :
MSVOA_N
ClientSampleId :

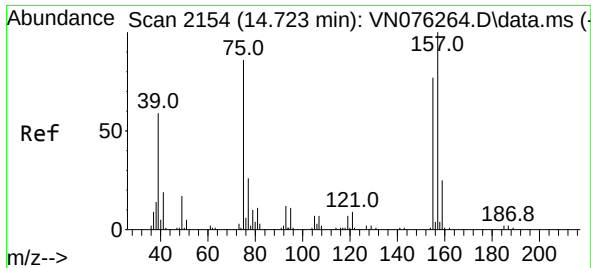
Tgt Ion: 91	Resp:	4974
Ion	Ratio	Lower Upper
91	100	
92	49.4	26.3 78.9
134	26.2	13.2 39.5



#91
1,2-Dichlorobenzene
Concen: 0.461 ug/l
RT: 14.106 min Scan# 2049
Delta R.T. -0.000 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

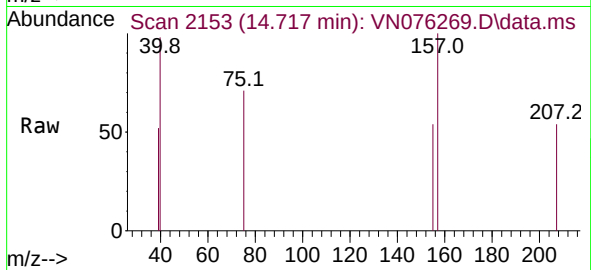
Tgt Ion: 146	Resp:	3271
Ion	Ratio	Lower Upper
146	100	
111	40.6	20.3 60.8
148	67.2	31.8 95.4



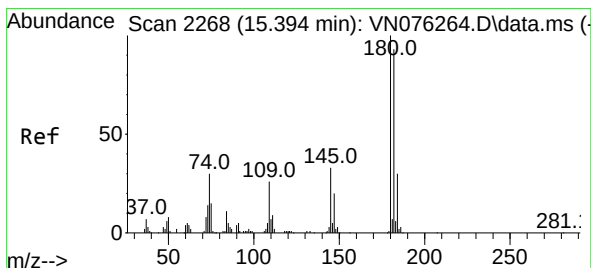
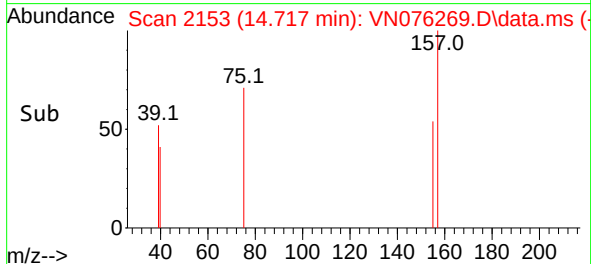
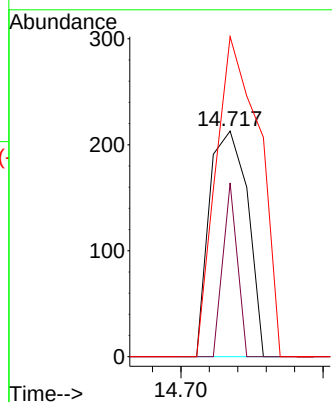


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.263 ug/l
RT: 14.717 min Scan# 2153
Delta R.T. -0.006 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Instrument :
MSVOA_N
ClientSampleId :

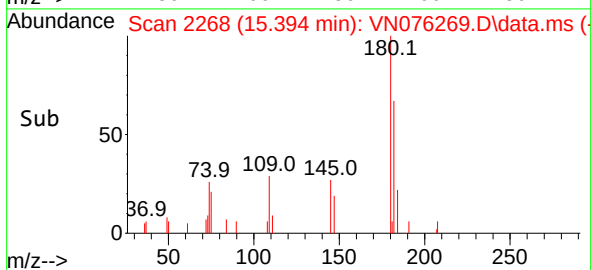
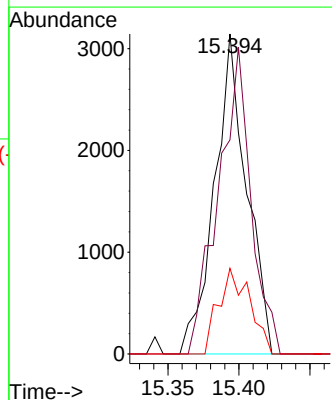
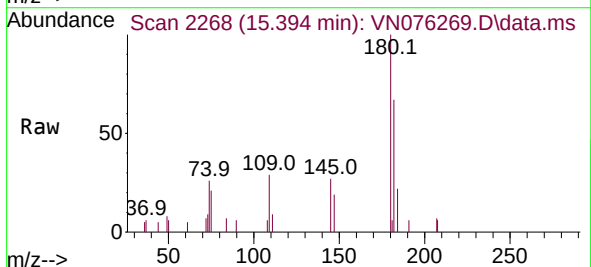


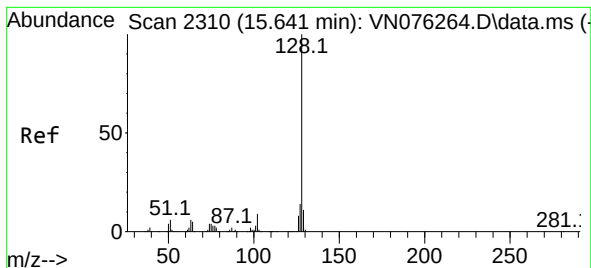
Tgt Ion: 75 Resp: 199
Ion Ratio Lower Upper
75 100
155 29.1 45.0 135.0#
157 161.8 58.3 174.9



#93
1,2,4-Trichlorobenzene
Concen: 2.705 ug/l
RT: 15.394 min Scan# 2268
Delta R.T. -0.000 min
Lab File: VN076269.D
Acq: 16 Jan 2023 15:15

Tgt Ion: 180 Resp: 4932
Ion Ratio Lower Upper
180 100
182 97.3 47.0 141.2
145 26.1 15.2 45.5





#95

Naphthalene

Concen: 3.810 ug/l

RT: 15.647 min Scan# 2311

Delta R.T. 0.006 min

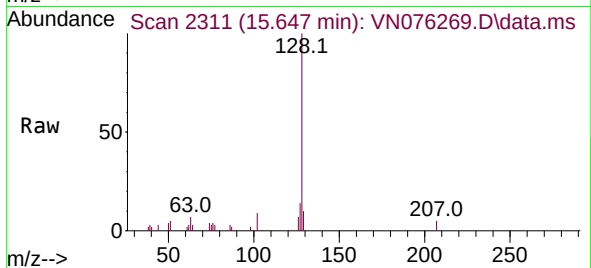
Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

Instrument :

MSVOA_N

ClientSampleId :



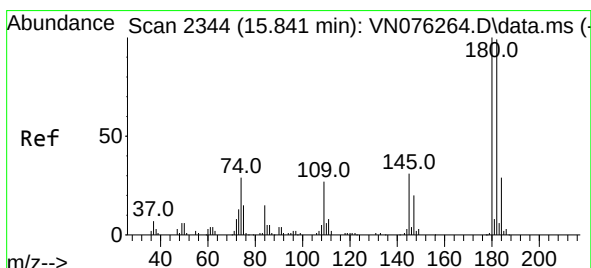
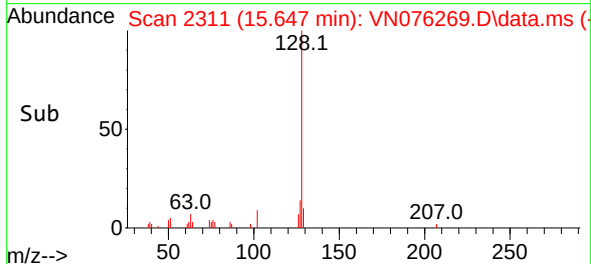
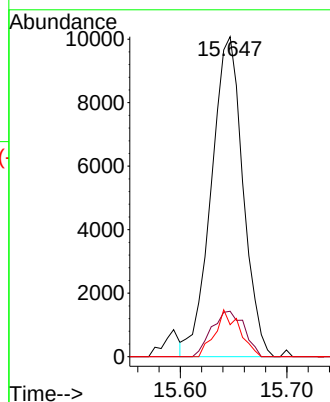
Tgt Ion:128 Resp: 20789

Ion Ratio Lower Upper

128 100

127 14.6 10.3 15.5

129 11.3 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 2.771 ug/l

RT: 15.847 min Scan# 2345

Delta R.T. 0.006 min

Lab File: VN076269.D

Acq: 16 Jan 2023 15:15

Tgt Ion:180 Resp: 5414

Ion Ratio Lower Upper

180 100

182 99.1 47.5 142.5

145 31.2 15.9 47.6

